



# The Architecture of Money

A globally scalable second generation financial blockchain ecosystem

## HydraNet

### Blockchain

The HydraNet blockchain will have 12 original hyper nodes, the 'heads of Hydra' to generate the genesis block and kick off the blockchain, which will then organically grow into n nodes of eventual full decentralization, just like two heads of Hydra replacing any head cut off. The node IP addresses will be obfuscated for further security so that they cannot be attacked. A Byzantine Fault Tolerant Hydra Consensus Protocol lays out the rules for the network operation, incl. eventual smart sharding for max scale.



HydraNet Native Digital Asset  
One native cryptocurrency for the entire ecosystem

### Bridges & Interfaces

While the Hydra Ecosystem operates in a self-contained manner with its native digital asset or cryptocurrency through its native entities such as the native wallets and integrated decentralized digital asset exchange, the "bridge entities" connect the ecosystem with the traditional economy (*eventually banks will disappear*), and hold balances in non-native assets being digitized / tokenized for the blockchain operating as a global value transfer network, enabling transfer of any item of value.

Wallets

Banks

Exchanges

Pmt firms

Merchants

Corporates

### Speed

The first stage of protocol normally reaches min. 2-3 sec transaction confirmation, with sub-second objective

### Scale

First phase targeted processing speed 50-60 thousand transactions per sec, eventually millions for global scale



Normal nodes  
Regular Block Producers



12 HyperNodes  
Original Block Producers



Dapps  
Decentralized Application System



Blockchain System  
HydraNet -based Blockchain Ecosystem



Bridge entities  
Bridging HydraNet w traditional economy

### Dapps

The HydraNet dapps leverage the potential of the HydraNet blockchain to provide decentralized products and services through applications that replace what banks, payment firms and networks, payment card schemes and other financial services providers do today in a centralized manner – the HydraNet dapp ecosystem will focus on financial applications to become *the blockchain for global finance*, while other types of dapps will be built on the enterprise platform.

## Cryptex

The cryptography securing HydraNet  
*Eventually quantum resistant*

CRYPTEX

Argentas

### Cryptex

Cryptex is the name for the cryptographic security protecting the transactions with secure cryptographic signatures and the network integrity. Eventually, the cryptographic signatures will need to be quantum resistant to be able to meet the future threat of quantum computing in breaking some of the existing cryptographic signature methods. The objective of Cryptex is to guarantee absolute security and privacy of transactions, while enabling sufficient transparency when bridge entities used.